# DEVELOPMENTAL PSYCHOBIOLOGY

## Volume 25, 1992

**Volume 25, Number 1 January 1992**

## CONTENTS


1 **Pre- and Postweaning Excretion of Puberty-Influencing Chemosignals in House Mice**
L. C. Drickamer

17 **Contextual Determinants of Auditory Learning in Bobwhite Quail Embryos and Hatchlings**
R. Licklitter and T. B. Hellewell

33 **Organization of the Stretch Response to Milk in the Rat Fetus**
S. R. Robinson and W. P. Smotherman

51 **Developmental Constraints on the Expression of Behavioral and Heart-Rate Orienting Responses: II. The Role of Ambient Temperature**
H. Hayne, R. Richardson, and B. A. Campbell

67 **Effect of Environmental Complexity on the Latency of Cortical Vibrissa Potentials**
M. L. Seo

77 **Notice**


**DEVELOPMENTAL PSYCHOBIOLOGY**
**Volume 25, Number 2 March 1992**

## CONTENTS


79 **Allomaternal Vocal Behavior in Squirrel Monkeys**
M. Biben

93 **Differences in Salivary Cortisol Levels in Cocaine-Exposed and Noncocaine-Exposed NICU Infants**
C. L. Magnano, J. M. Gardner, and B. Z. Karmell

105 **The Development of Righting Reflexes in the Pouch Young of the Marsupial *Dasyurus hallucatus***
S. M. Pellis, V. C. Pellis, and J. E. Nelson

127 **Behavioral and Physiological Responses of Mother and Infant Squirrel Monkeys to Fearful Stimuli**
S. G. Wiener and S. Levine

137 **The Energetic Costs of Rough-and-Tumble Play in the Juvenile Rat**
S. M. Siviy and D. M. Atrens

149 **Notice**

**DEVELOPMENTAL PSYCHOBIOLOGY**
**Volume 25, Number 3 April 1992**

## CONTENTS

**151** **Contextual Control of Conflicting Associations in the Developing Rat**
T. B. Moye, S. M. Brasser, L. Palmer, and C. Zeisset

**165** **Variation in Maternal Care and Individual Differences in Play, Exploration, and Grooming of Juvenile Norway Rat Offspring**
C. L. Moore and K. L. Power

**183** **Neonatal 6-OHDA Lesions and Rearing in Complex Environments: Regional Effects on Adult Brain $^{14}$C-2-Deoxyglucose Uptake Revealed by Exposure to Novel Stimulation**
J. N. Nobrega, M. J. Saari, J. N. Armstrong, and T. Reed

**199** **Development of Antipredator Responses in Snakes: V. Species Differences in Ontogenetic Trajectories**
H. A. Herzog, Jr., B. B. Bowers, and G. M. Burghardt

**213** **Temperature-dependent Effects of Maternal Separation on Growth, Activity, and Amphetamine Sensitivity in the Rat**
B. Zimmerberg and A. M. Shartrand

**227** **Notice**

**DEVELOPMENTAL PSYCHOBIOLOGY**
**Volume 25, Number 4 May 1992**

## CONTENTS

**229** **Ultrasonic Vocalizations by Rat Pups: The Primary Importance of Ambient Temperature and the Thermal Significance of Contact Comfort**
M. S. Blumberg, I. V. Efimova, and J. R. Alberts

**251** **The Effect of the Neurotoxin DSP4 on the Development of a Predisposition in the Domestic Chick**
D. C. Davies, M. H. Johnson, and G. Horn

**261** **The Effects of Early Social Isolation on the Motivation for Social Play in Juvenile Rats**
S. Ikemoto and J. Panksepp

**275** **Quinpirole Alters Quadruped Activity in Rats from the Second Postnatal Week**
D. Eilam, H. Szechtman, and L. P. Spear

**291** **Blood Pressure Increases in Response to Feeding in the Term Neonate**
M. Cohen, M. Witherspoon, D. R. Brown, and M. M. Myers

299 **Faces as Reinforcers: Effects of Pairing Condition and Facial Expression**
P. S. Kaplan, K. B. Fox, and E. R. Huckeby

**DEVELOPMENTAL PSYCHOBIOLOGY**
**Volume 25, Number 5 July 1992**

## CONTENTS

313 **In Memoriam: Alan Neil Epstein, July 29, 1932–January 9, 1992**
E. M. Blass

319 **First Time Experiences in Infancy: When They Appear to Be Pleasant, Do They Activate the Adrenocortical Stress Response?**
L. Hertsgaard, M. Gunnar, M. Larson, L. Brodersen, and H. Lehman

335 **Development of Open-Field and Social Behavior of the Paradise Fish (*Macropodus opercularis* L.)**
A. Mikloski, J. Topál and V. Csányi

345 **Development of the Ability to Detect Visual Motion in Infant Macaque Monkeys**
A. Mikami and K. Fujita

355 **The Biphasic Effect of Morphine on Odor Conditioning in Neonatal Rats**
C. K. Randall, P. J. Kraemer, J. M. Dose, T. J. Carbary, and M. T. Bardo

365 **Developmental Thermoregulatory Deficits in Prenatal Ethanol Exposed Long- and Short-Sleep Mice**
D. M. Gilliam and L. E. Kotch

375 **Early Developmental Change in Bitter Taste Responses in Human Infants**
H. Kajiura, B. J. Cowart, and G. K. Beauchamp

387 **Announcement**

**DEVELOPMENTAL PSYCHOBIOLOGY**
**Volume 25, Number 6 September 1992**

## CONTENTS

389 **Operant and Pavlovian Contributions to the Ontogeny of Pecking in Ring Doves**
P. D. Balsam, J. Stephenson Graf, and R. Silver

411 **Visual Discrimination and Recognition of Facial Expressions of Anger, Fear, and Surprise in 4- to 6-Month-Old Infants**
J. M. Serrano, J. Iglesias, and A. Loeches

427 **Endocrine Activation Mimics the Adverse Effects of Prenatal Stress on the Neuromotor Development of the Infant Primate**
M. L. Schneider, C. L. Coe, and G. R. Lubach

441 **Mobile Surrogate Mothers and the Development of Exploratory Behavior and Radius of Action in Infant Long-Tailed Macaques (*Macaca fascicularis*)**
J. A. H. Duijghuisen, P. J. A. Timmermans, J. D. Vochteloo, and J. M. H. Vossen

461 **Behavioral Selection of Odor Cues by Young Female Mice Affects Age of Puberty**
L. C. Drickamer

471 **Announcement**

**DEVELOPMENTAL PSYCHOBIOLOGY**
**Volume 25, Number 7 November 1992**

## CONTENTS

473 **In Memoriam: Sandra G. Wiener, March 26, 1951–September 24, 1991**
J. Weinberg, L. Crnic, and N. K. Laughlin

475 **Ontogeny of Apomorphine-Induced Stereotypy and Its D1 and D2 Receptor Mediation in Rats Depleted of Dopamine as Neonates**
D. R. Abrams and J. P. Bruno

497 **Thermogenesis During Ultrasonic Vocalization by Rat Pups Isolated in a Warm Environment: A Thermographic Analysis**
M. S. Blumberg, I. V. Efimova, and J. R. Alberts

511 **Ultrasonic Vocalization by Rat Pups During Recovery from Deep Hypothermia**
M. A. Hofer and H. N. Shair

529 **Prenatal Stress Exposure Alters Postnatal Behavioral Expression Under Conditions of Novelty Challenge in Rhesus Monkey Infants**
M. L. Schneider

541 **Announcement**

**DEVELOPMENTAL PSYCHOBIOLOGY**
**Volume 25, Number 8 December 1992**

## CONTENTS

543 **Oral Capture and Grasping of an Artificial Nipple by Rat Fetuses**
S. R. Robinson, T. C. M. Hoeltzel, K. M. Cooke, S. M. Umphress, W. P. Smotherman, and D. E. Murrish

557 **Response of Bonnet Macaque Dyads to an Acute Foraging Task under Different Motivational Conditions**
M. W. Andrews and L. A. Rosenblum

**567** **Long-Evans and Sprague-Dawley Rats Differ in Their Spatial Navigation Performance During Ontogeny and at Maturity**
J. Tonkiss, P. Shultz, and J. R. Galler

**581** **Ultrasonic Vocalization and Body Temperature Maintenance in Infant Voles of Three Species (Rodentia: Arvicolidae)**
B. H. Blake

**597** **The Ontogeny of Phencyclidine-Induced Wall Climbing and Locomotor Activity**
F. M. Scalzo and L. J. Burge

**613** **Behavioral and Physiological Response of Juvenile Sooty Mangabeys to Reunion with Their Mothers Following a Year's Absence**
D. A. Gust, T. P. Gordon, A. R. Brodie, and H. M. McClure

BOOKS AND PERSPECTIVES

**623** **Scientific Technology and Psychobiological Theory: The Affordance of Insight**
R. Lickliter

**629** **Subject Index**
**633** **Contents for Volume 25**
**639** **Author Index**
**643** **Acknowledgment**
**647** **Erratum**